

# SELF-PRIMING SIPHON PUMP

**Model 3878**

## ASSEMBLY and OPERATING INSTRUCTIONS



Due to continuing improvements, actual product may differ slightly from the product described herein.



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**For technical questions and replacement parts, please call 1-800-444-3353**

## Specifications

Intake Hose	50" L x 5/16" D
Discharge Hose	50" L x 5/16" D
Air Pressure Hose	16" with 90° Snap/Shut Valve
Dipstick Tube	31" L x 1/4" D

## Save This Manual

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

## Safety Warnings and Precautions

**WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.**

**Read all instructions before using this tool!**

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Keep work area well lighted. Do not siphon flammable liquids near any heat or spark source. Do not smoke or allow smokers in the vicinity of the Siphon Pump while siphoning flammable liquids.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle the Siphon Pump.
4. **Store idle equipment.** Always lock up the Siphon Pump and keep out of reach of children.
5. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
6. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
7. **Use eye and ear protection.** Always wear ANSI-approved impact safety goggles. Wear an ANSI-approved dust mask or respirator when working around chemical dusts and mists.
8. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across hoses.

9. **Maintain tools with care.** Keep Siphon Pump clean for better and safer performance. Follow instructions for changing accessories. Inspect tool hoses periodically, and if damaged, have them repaired by an authorized technician. The handle must be kept clean, dry, and free from oil and grease at all times.
10. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
11. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician.
12. **Guard against electric shock.** Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerator enclosures.
13. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.
14. **Do not operate Siphon Pump if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the Siphon Pump.
15. **Maintenance.** For your safety, maintenance should be performed regularly by a qualified technician.
16. **Self Priming Pump.** This pump is self priming. **DANGER!!** Attempting to prime the pump by using your mouth on the hose could result in severe illness or death.
17. **Only transfer and pump gasoline in a well-ventilated area.** Make sure your work area is well-ventilated and clear of any flammable materials. **WARNING!! Gasoline fumes are highly flammable and subject to possible explosion.**
18. **Wash Pump after use.** Always wash both hoses and Pump thoroughly with soap and water and then air dry before re-using the Pump and hoses.
19. **Store liquids in the proper container.** When transferring gasoline, only put gasoline in an approved container. Never store gasoline in a glass container.
20. **Let engine cool.** When transferring oil, always let the vehicle's engine and all other components, such as oil, cool before using the Pump. When finished, clean the Pump of oil thoroughly.

**Warning: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.**

## Unpacking

When unpacking, check to make sure the parts listed on page 6 are included. If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual as soon as possible.

## Operation

### To Assemble:

1. Insert one end of the clear Intake Hose (2) into a black Hose Connector (5). Insert the hose with connector into the top intake valve of the Pump (1) and tighten securely. See Figure 1

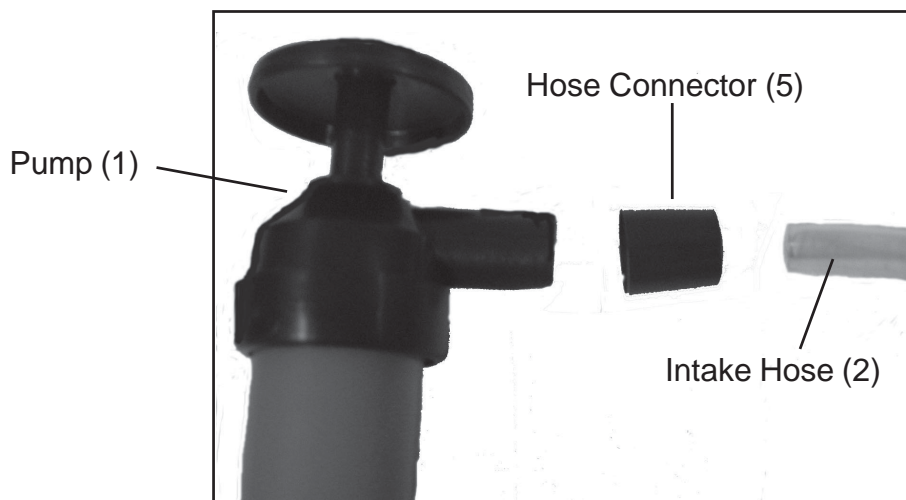


Figure 1

2. Repeat Step 1 using the clear Discharge Hose (3), except insert this hose with connector into the bottom discharge valve of the Pump (1) and tighten securely.

3. To begin the siphon process, put the Intake Hose (2) into the liquid to be transferred. Put the Discharge Hose (3) into the location where the liquid is to go. **Please note:** Make sure that the Discharge Hose (3) is positioned lower than the Intake Hose (2).

4. Prime the Siphon Pump (1) with 3 to 4 pumps of the plunger at the top of the Pump. Once the liquid begins to flow, it will transfer without further pumping.

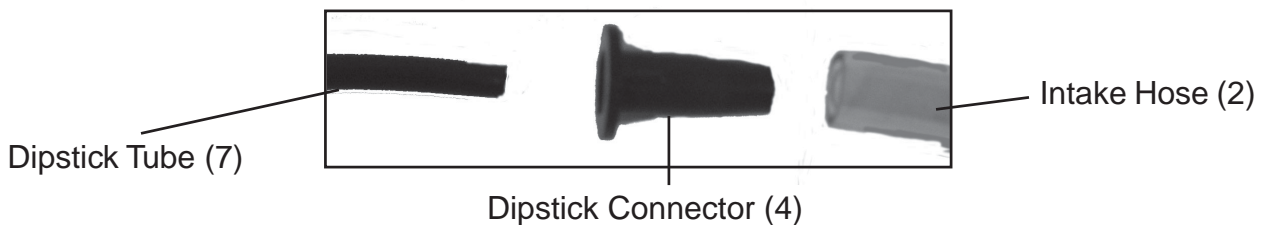
## WHEN SIPHONING GAS:

Follow Steps 1-4 listed on page 4. After each use, pump out the remaining residue of gas from both the Intake Hose (2) and Discharge Hose (3). Wash thoroughly with soap and water and let air dry before storing the Pump.

**Please note:** Many cars have a baffle (small metal flap) in their gas tank inlet to prevent a siphoning tube from being inserted. Use a screwdriver (not included) to hold open the baffle when siphoning.

## TO CHANGE OIL:

1. Follow Steps 1-2 and then insert the Dipstick Connector (4) into one end of the Dipstick Tube (7). Insert the Dipstick Connector (4) into the end of the Intake Hose (2). See Figure 2.

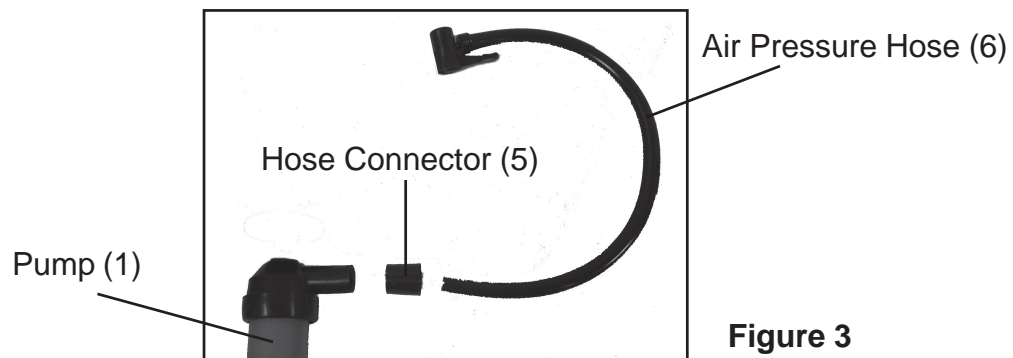


**Figure 2**

2. Insert the other end of the Dipstick Tube (7) into the engine dipstick hole until it reaches the bottom of the crankcase. Place the Discharge Hose (3) into the oil drain pan and begin to pump.

## TO USE AS AIR PUMP:

1. Insert the Air Pressure Hose (6) into a Hose Connector (5) and then insert both into the discharge nozzle (bottom valve on Pump). See Figure 3.



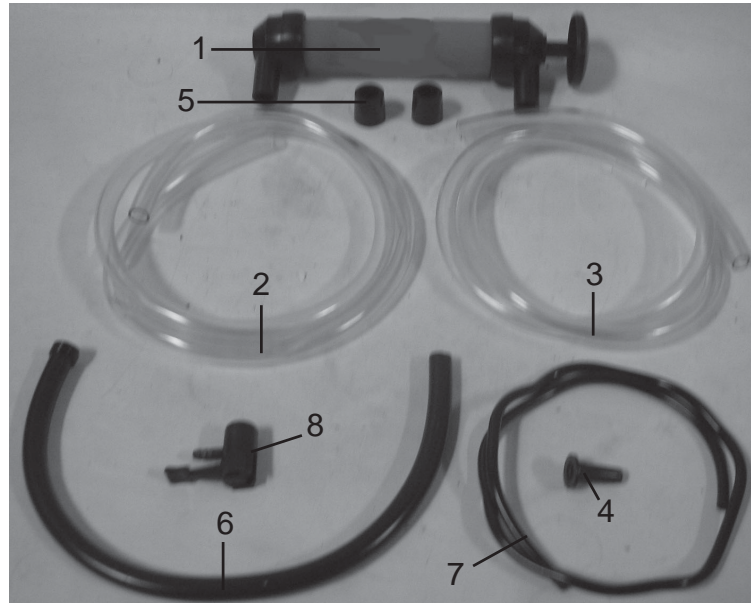
**Figure 3**

2. Tighten securely and begin pumping. **Please note:** To inflate footballs, beach balls, etc., place an inflation needle in the threaded adapter on the end of the Air Pressure Hose (6) and begin pumping. **Warning:** Always adhere to the inflatable item's recommended PSI rating. Over-inflating could result in damage to item or a possible explosion and result in serious injury.

## Maintenance

1. To clean, attach both hoses to the Pump and siphon warm, soapy water through the Pump until it comes out clean. Repeat the process with clean water to wash out the soap.
2. Wipe down the Pump and hoses with a lint free cloth. Allow to air dry and keep the unit disassembled during storage. Allow ample time for residual fumes to dissipate. Store away from heat or spark sources.

### Assembly Drawing and Parts List



Part #	Description	Qty.
1	Pump	1
2	Intake Hose	1
3	Discharge Hose	1
4	Dipstick Connector	1
5	Hose Connectors	2
6	Air Pressure Hose	1
7	Dipstick Tube	1
8	Air Nozzle	1

#### PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

**NOTE:** Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.